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**Lew**

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(54) **USING A WAVEGUIDE TO DISPLAY INFORMATION ON ELECTRONIC DEVICES**

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 60 days.

This patent is subject to a terminal disclaimer.

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CPC ..... **G06F 3/041** (2013.01); **G01D 11/28**

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See application file for complete search history.

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(57)

**ABSTRACT**

An electronic device includes an instrument panel that includes a display opening, where the instrument panel is located in a first plane; a circuit board located inside the electronic device, where the circuit board includes a display device that includes a display area, and where the display area is located in a second plane that is different from the first plane; and a waveguide that couples the display area to the display opening and guides light, and/or an image displayed in the display area, from the display area to the display opening.

**20 Claims, 7 Drawing Sheets**

